A1 cancel manner, these rows running parallel with one another, and each row of reservoirs co-operating with a row of reaction areas.

Please cancel claim 4.

Please amend claims 6, 9-10, 12-16, 19-20, 27-28, 32 and 35 to read as follows:

6. (Amended) Reaction vessel as claimed in claim 1, characterised in that respective adjacent reservoirs of two A2 consecutive rows are offset from one another by a same distance and in a same direction relative to the direction of the rows.

9. (Amended) Reaction vessel as claimed in claim 8, characterised in that the vessel bottom parts comprise at least A3 one reservoir and several reaction areas.

10. (Amended) Reaction vessel as claimed in claim 8, characterised in that at least three reaction areas are provided in the vessel bottom parts.

12. (Amended) Reaction vessel as claimed in claim 8, characterised in that the reaction areas of the vessel bottom A4 parts are disposed at a height in the region of 5 mm to 10 mm above the vessel base of the reservoir.

13. (Amended) Reaction vessel as claimed in claim 8, characterised in that the reaction areas of the vessel bottom parts are provided in the form of recesses with a capacity in the region of less than 5µl.

14. (Amended) Reaction vessel as claimed in claim 13, characterised in that the recesses are provided in the form of a plate-shaped cuboid designs or in a cylindrically-shaped disc.

15. (Amended) Reaction vessel as claimed in claim 13, characterised in that floors of the recesses are of an approximately convex curvature relative to the floors.

16. (Amended) Reaction vessel as claimed in claim 8, characterised in that, seen in a plan view down onto the standing plane, the rows of reaction areas of the housing bottom part lie respectively adjacent to the rows of reservoirs.

19. (Amended) Reaction vessel as claimed in claim 1, characterised in that a number of reaction chambers is provided in the housing bottom part, the number being selected from a group based on a mathematical formula of 3×2^N where N is a natural number.

20. (Amended) Reaction vessel as claimed in claim 8, characterised in that the housing bottom part is made from a transparent plastics material.

27. (Amended) Reaction vessel as claimed in claim 26, characterised in that the recesses of the vessel top parts are of a cylindrical disc shape or in the form of a plate-like, quadratic cuboid.

28. (Amended) Reaction vessel as claimed in claim 26, characterised in that the recesses of the vessel top parts are designed to have a capacity in the region of less than 5 µl.

32. (Amended) Reaction vessel as claimed in claim 1, characterised in that a number of vessel top parts is provided in the vessel cover, the number being selected from a group based on the mathematical formula of 3×2^N where N is a natural number.

35. (Amended) Reaction vessel for producing a crystal from a substance in solution or in liquid form, comprising at least one housing part and having several reaction chambers, each forming a separate gas chamber, and each reaction chamber housing a reservoir and several reaction areas co-operating therewith, the reaction areas being connected to one another and to the reservoir in order to exchange gas, the reaction chambers being